system of π electron a conjugate the metallic chooserved experisupplying the I the spectra. O	mentally. The	e reflections to and A. T. T.	n of lighank P.	ht from t P. Feofil	he cleavage ov and B.	te. 5 This ex e plane of L	plains =
SUB CODE: 20/	SUBM DATE:	29Nov65/	ORIG	ref: 002,	oth re	F: 013	
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L 05023-67 EWT(1)/EWT(m)/EWP(t)/ETI IJP(c) JD/WW/HW/JG/GGACC NRI AP6032465 SOURCE CODE: UR/0056/66/051/003/0707/0710 AUTHOR: Gabuda, S. P.; Lundin, A. G.; Gagarinskiy, Yu. V.; Batsanova, L. R. Khripin, L. A. ORG: Institute of Physics, Siberian Branch, Academy of Sciences SSSR (Institut & fiziki Sibirskogo otdeleniya Akademii nauk SSSR); Institute of Inorganic Chemistry, Siberian Branch, Academy of Sciences SSSR (Institut neorganicheskoy khimii Sibirskogo otdeleniya Akademii nauk SSSR) TITLE: Nuclear magnetic resonance and hyperfine interaction in crystals of the tysonite structural type SOUR CE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 51, no. 3, 707-710 TOPIC TAGS: nuclear magnetic resonance, hyperfine interaction, hyperfine interaction constant, hyperfine coupling constant, crystal symmetry, tysonite type crystal, fluorine nucleus, flourine compound, trifluoride, cerium trifluoride, praseodymium trifluoride, neodymium trifluoride, uranium trifluoride ABSTRACT: The magnetic resonance spectra of F19 nuclei in cerium trifluoride, Card 1/2

L 05023-67

ACC NRI AP6032465

praseodymium trifluoride, neodymium trifluoride, and uranium trifluoride polycrystalline samples were studied. The averaged values of local magnetic fields near the fluorine nuclei were determined, and values of hyperfine coupling constants F¹⁹ nuclei with unpaired electrons were estimated. It was shown that the hyperfine interaction constant in cerium trifluoride is zero, whereas the constant An significantly differs from zero for praseodymium trifluoride, neodymium trifluoride, and uranium trifluoride. The results obtained were interpreted on the basis of symmetry properties of the investigated crystals. The authors thank L. G. Falayeva for preparing all calculations by computer. Orig. art. has: 2 figures. [Based on authors' abstract]

SUB CODE: 07, 20/ SUBM DATE: 11Jan66/ ORIG REF: 002/ SOV REF: 001/ OTH REF: 021/

Card 2/2 XC

MINDIN, B.N.; JUKHOROBOVA, T.T.

Separation and determination of halogens when they are present together in organic compound \$.7hur. aral. khim. 19 no.6:742-745 (MIRA 18:3)

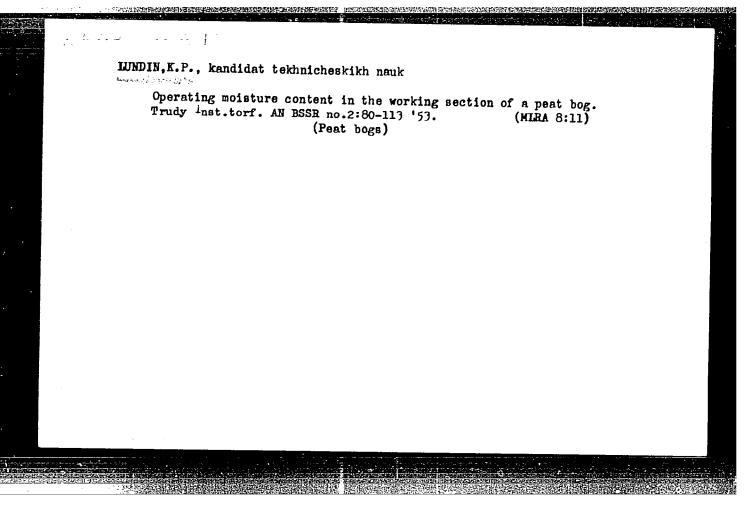
1. Institut khimii Ural'skogo filiala AN SSSR, Sverdlovsk.

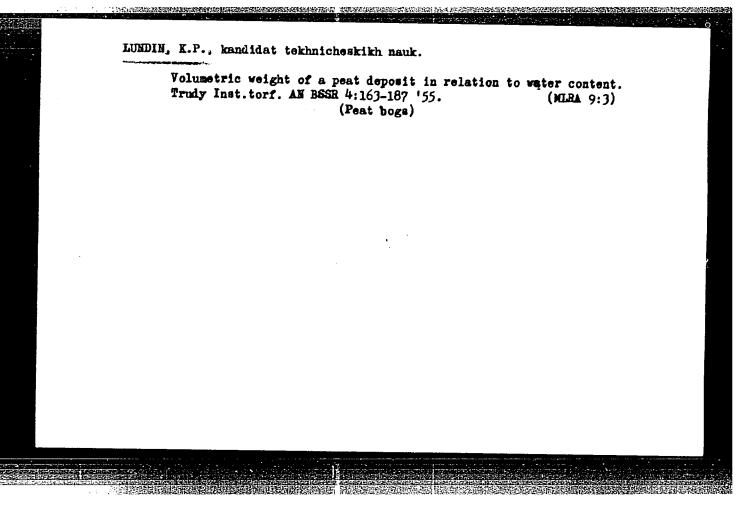
LUNDIN, K. P.

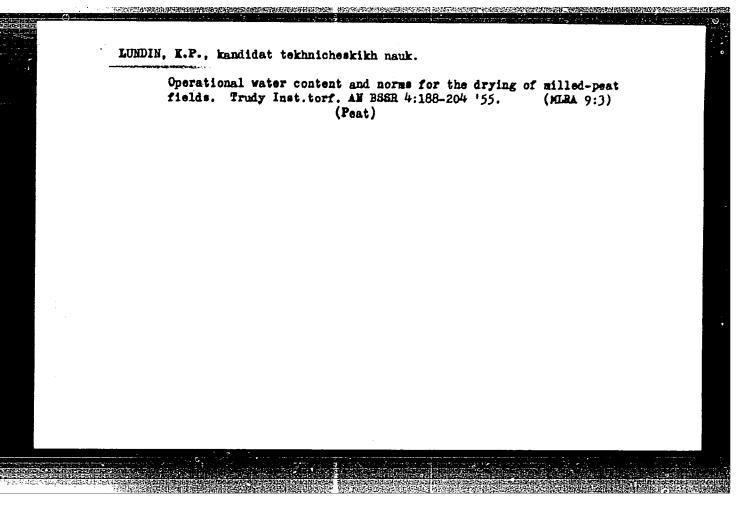
Peat

Tensile strength of peat. Shor. nauch. trud. Inst. torfa AN SSSR no. 1, 1951.

Monthly List of Russian Accessions, Library of Congress, August 1952. UNCLASSIFIED.







15-57-8-11353 Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 8,

p 177 (USSR)

AUTHOR:

Lundin, K. P.

TITLE:

Density of Peat as Related to Its Ash Content (Ob"yemnyy ves torfa v zavisimosti ot zol'nosti)

PERIODICAL:

Tr. In-ta torfa AN BSSR, 1956, Vol 5, pp 165-175

ABSTRACT:

Peat is a three-phase physical mixture consisting of a solid substance, water, and air. The density of peat is determined by the relation between these three components. The specific moisture content changes with the ash content. The data in the literature on this subject do not establish a general relation between the density of peat and its ash content. analytical expressions of V. G. Goryachkin and A. F. Pechkurov on the effect of ash content upon density of peat are inadequate for establishing of a general

Card 1/3

Density of Peat as Related to Its Ash Content (Cont.)

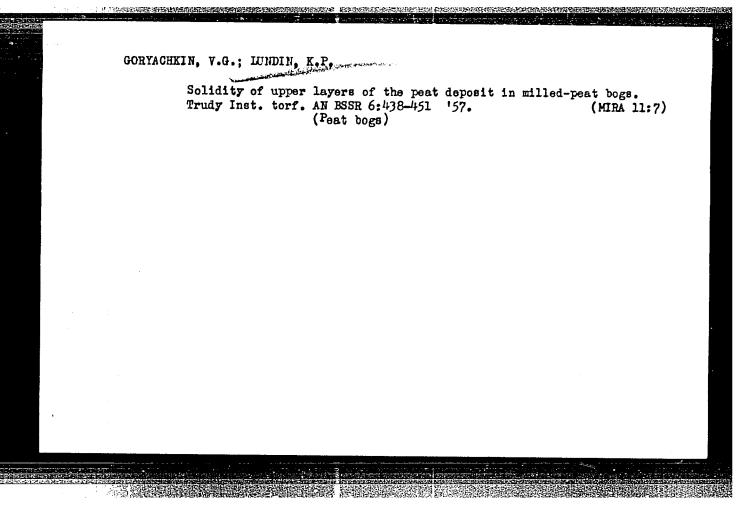
relationship between these two properties. S. A. Sidyakin's tables for lowland peat in deposits with an ash content of 10 to 40 percent, as revised by S. V. Kudriumov of the Ukrinstopliv / Ukrainian Institute of Combustible Matter (?) / , establish a quantitative relation between the density of peat and its ash content. The materials used in these investigations consisted of once-processed wood and cane peat with a degree of decomposition of 40 to 45 percent, and a uniform sand with a particle diameter of 0.25 to 0.5 mm. The peat was carefully mixed with weighed portions of the sand for the purpose of increasing the content of impurities. Cylindrical specimens with a diameter of 69 mm and a height of 65 mm were prepared from the test material. These were first air-dried and then dried in a desdicating cabinet at 1050 C. to a constant weight. The tests were run twice. According to the results, the effect of ash content on the density of peat is nonuniform. It is small up to 60 percent ash content and is most pronounced for ash content above 60 percent. The density of peat in the deposit increases by 0.0015 to 0.0020 ton/cu m with an increase of 1 percent in ash content for ash contents not exceeding Card 2/3

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Density of Peat as Related to Its Ash Content (Cont.)

60 percent. The author discusses the case of introducing into the peat bog of mineral particles from the outside, in connection with the establishment of a general relationship between density and ash content. He determines the nature of the relation of moisture content to ash content of peat in the deposit, and comments on the considerably higher values obtained by S. V. Kudriumov for increase in density with each 1 percent of increase in ash content. These higher values are attributable to the fact that Kudriumov, following Sidyakin, assumed the variation of density of peat in the deposit to be the same as for a piece of cut peat. This assumption is incorrect.

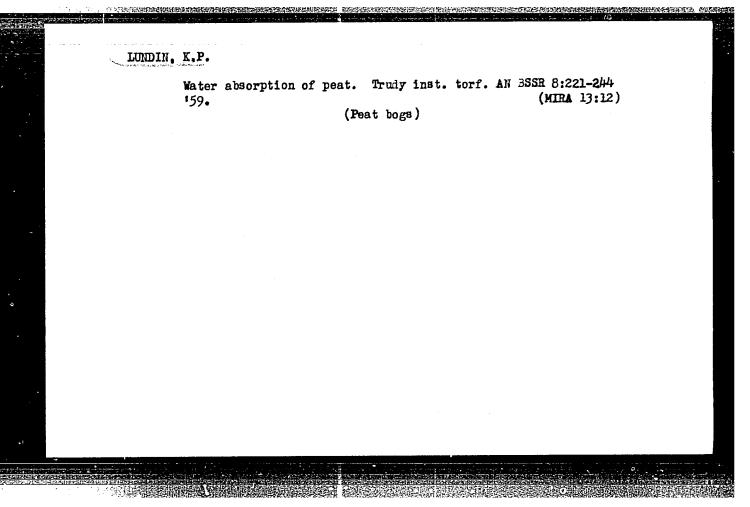
Card 3/3



LUNDIN, K.P. kand.tekhn.nauk

Moisture properties of the peat deposit in connection with its drying. Torf.prom. 36 no.3:12-16 '59. (MIRA 12:7)

1. Belorusskiy nauchno-issledovatel skiy institut melioratsii i vodnogo khozyaystva.
(Peat bogs) (Drainage)



GALENCHIK, I.Z.; LUNDIN, K.P.

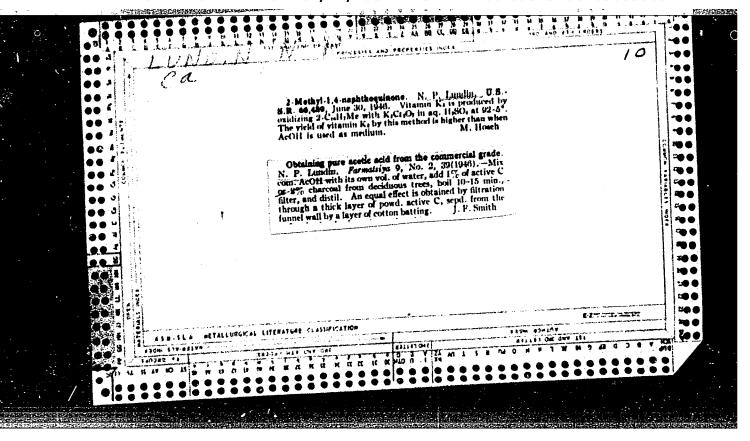
Some water-absorption and water-loss characteristics of sapropel from the "Kolpenitsa" extensive peat deposits. Trudy Inst. torf.
AN BSSR 9:77-82 '60. (MIRA 14:2)

(White Russia--Peat) (Sapropel)

ZUBETS, V.M., otv. red.; LASHKEVICH, G.I., red.; FECHKUROV, A.F., red.; IVITSKIY, A.I., red.; BEL'SKIY, B.B., red.; LUMDIN, K.P., red.; MISHANOVA, Ye.A., red.; TIMOSHCHUK, R.S., tekhm. red.

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[Draining and utilizing peat-bog soils] Osushenie i ispol'zovanie torfiano-bolotnykh pochv. Minsk, Gos.izd-vo sel'khoz.lit-ry BSSR, 1963. 316 p. (MIRA 16:12)
(Peat soils) (Drainage)



USSR/Chemistry - Pyonometers Apr 48
Chemistry - Density, Measurement of
"Modification of an Ostwald Pyonometer," N. P. Lundin
Ukrainian Experimental Endocrinol Inst, ½ p

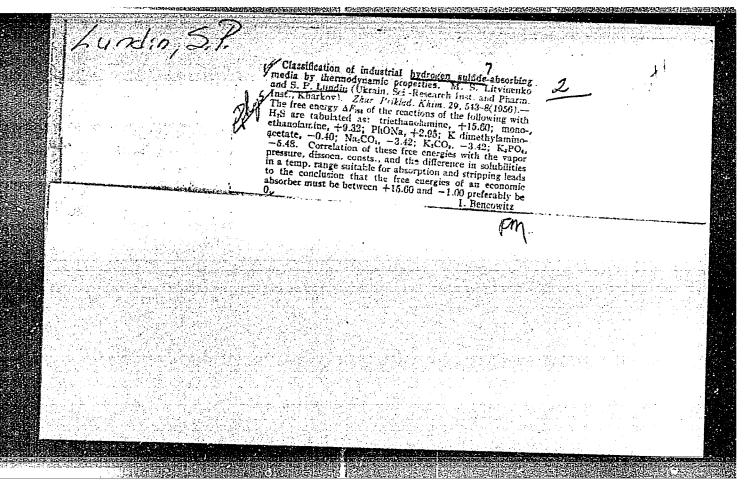
"Zavod Lab" Vol XIV, No 4

Determination of specific gravity by Ostwald pyonometer is often a lengthy process since it must be filled to exact level of mark. In Lundin's modification, one limb of the apparatus becomes a graduated micropipette. Describes method of calibration with sketch.

4/49721

LUNDIN, Stig

Weldability and the problems of cracks in welding nonalloyed and low-alloyed steels. Pt. 2. Zavarivanje b no. 11: 242-254 N 163.



AUTHORS:

Postovskiy, I. Ya., Lundina, I. B.

507/79-29-2-54/71

TITLE:

On the Tautomerism of Acyl Derivatives of 2-Aminothiazole

(K tautomerii atsil'nykh proizvodnykh 2-aminotiazola)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 2, pp 608-615 (USSR)

ABSTRACT:

Publications describe two different acetyl derivatives of 2-aminothiazole. One compound (melting point at 114°) was synthesized by G. Joung and S. I. Crooks, the other one (melting point at 174°) by C. D. Hurd and N. Khlarach (Refs 1,2).

(melting point at 1740) by C. D. Hurd and R. Khrarach (herb type the first one was synthesized by acetylating the amine with acetic acid anhydride in the presence of sodium acetate, and the second by reacting the same anhydride with the amine under addition of concentrated sulfuric acid. Since 2-aminothiazole can react in form of the amino and imino structure it could be presupposed that under various conditions of acetylation the isomeric compounds of the structure (A) and (B) are

formed and correspond to the two tautomeric forms of

2-aminothiazole:

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. On the Tautomerism of Acyl Derivatives of 2-Aminothiazole

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(B)

On checking this presupposition it was of interest to clarify at the same time, whether also other 2-aminothiazole derivatives could yield two isomeric acetylation products. For this purpose the 2-aryl aminothiazoles (I-V)(Table 1) were acetylated under various conditions, in the presence of sodium acetate and concentrated sulfuric acid. Two acetyl derivatives (a) and (b) (Table 1) were obtained here for each amine, depending on the addition. Thus the results were as follows: 2-methyl and 2-phenyl aminothiazoles yield on acetylation under various conditions two isomeric acyl derivatives, corresponding to the two tautomeric forms of

Card 2/3

On the Tautomerism of Acyl Derivatives of 2-Aminothiazole

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2-aminothiazole. Spectroscopic data show that the low-melting acetyl derivative represents the amide, and the high-melting one the imine. It was further found that also similarly structured heterocyclic compounds are capable of tautomerism and under the same conditions allow only one acetyl derivative to form (derivatives of aminothiodiazole, 2-amino pyridine, and others belong to this group). Low-melting acyl derivatives are shown to pass over to high-melting isomers in the presence of acetic acid and propionic acid anhydride, as well as of sulfuric acid. There are 2 figures, 3 tables, and 11 references, 2 of which are Soviet.

ASSOCIATION:

Ural'skiy politekhnicheskiy institut (Ural Polytechnic

Institute)

SUBMITTED:

January 8, 1958

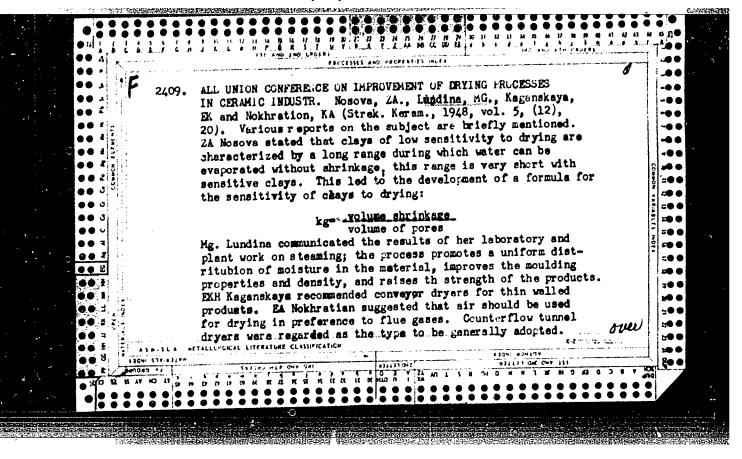
Card 3/3

LUNDINA, 1. B., GAND CHEN SCI, THE CHEMISTRY OF 2-AMINOTHIAZOLE (DUAL REACTION OF CERTAIN DERIVATIVES OF 2-AMINOTHIAZOLE). SVERDLOVSK, 1961. (MIN OF HIGHER AND SEC SPEC ED RSFSR. URAL STATE UNIV IN A. M. GOR'KIY, CHAIR OF ORG CHEW). (KL, 2-61, 200).

-28-

Dissertation: "Influence of Metting Clayswith Steam on Their Drying and Physico-mechanical Properties." Moscow Technological Inst of Light Industry inemi L.M. Eaganavich, 10 Apr 47.

S0: Vechernyaya Moskva, Apr, 1947 (Project #17836)



LUNDENA, M.G.

30335

Parouvlazhinyeniye goin pri proizvudstvye kirpicha. Trudy Obshchyesoyuz. nauch. - isslyed. in-ta stroit. kyeramiki, vyp. 1, 1949, s. 3 - 60. Bibliogr: 26 nazv.

SC: LETCPIS' No. 34

LUNDINA, M.G.K.

30334

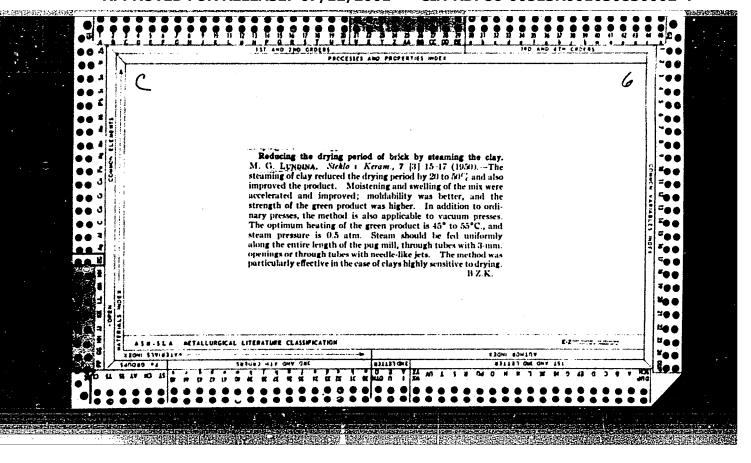
Voprosu ispol'zovaniya shamota pri proizvodstwye kirpicha. Trudy Obshchyesoyuz. nauch - isslyed. in-ta stroit. kyeramiki, vyp. 1, 1949, s. 116-26

SO: LETCPIS' No. 34

LUNDINA, M.G.
30336

Razrabotka 5y3khnolutii p4oiavedstva ploskoy lyentochnoy chyeryepitsy. Trudy Obshchyesoyuz.
nauch. - isslyed. in-ta stroit. kyeramiki, vyp. 2, 1949, s. 39-49

SO: LETOPIS' No. 34



LUMBIE, F. 3. Proizvodstvo i kontrol' proizvodstva kirpicha i pustotelykh blokov / Production and production control in the manufacture of bricks and hollow blocks.

50: Monthly List of Russian Accessions, Vol. 6 to. 11 February 1954

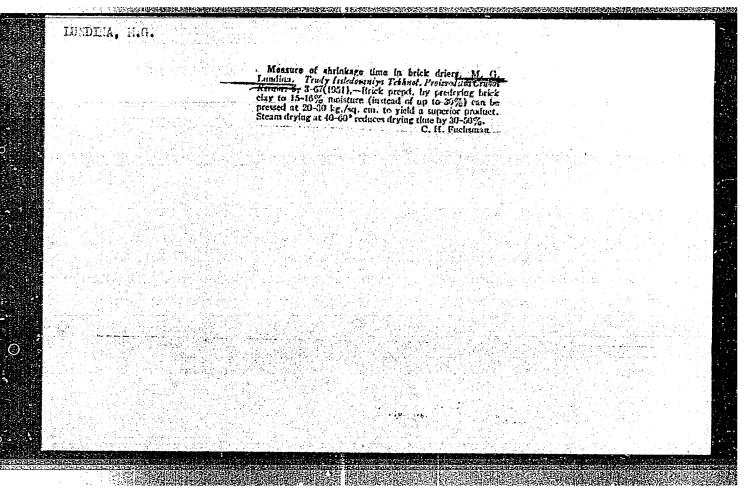
Moskva, Ugletekhizdat, 1951. 108 p.

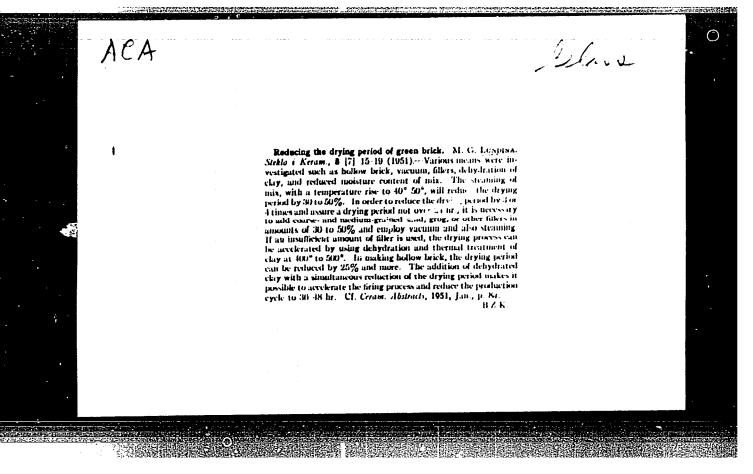
LUNDINA, M. C.; YUSHKEVICH, H. C.; SUKHOV, P.V.

Brick Houses

House from prefabricated ceramic elements. Trudy Niistroitekramika, No. 5, 1951.

MONTHLY LIST OF RUSSIAN ACCESSIONS. Library of Congress, April 1952. UNCLASSIFIED.



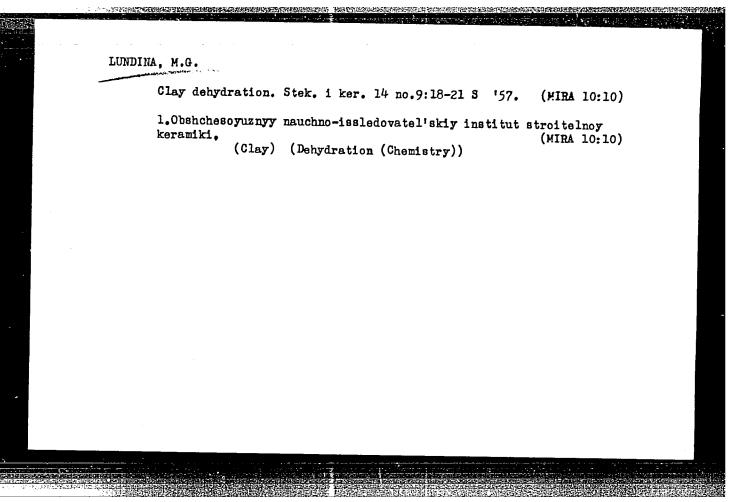


- 1. LUNDINA, M. G.:
- 2. USSR (600)
- 4. Brick Industry
- 7. Methods of utilizing further the reserves of the brick industry. Stek. i ker. 9 no. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January, 1953, Unclassified.

onevertig Heer	ing - Ceramic materials
Card 1/1	Pub. 104 - 3/8
Authors	Beznosikova, A. V.; Yakovleva, M. E.; and Lundina, M. G.
Pitle	Changes in phase composition during the kilning of goods made of easily fusible clay
Periodical	Stek. 1 ker. 3, 7-11, Mar 1955
batract	An investigation was conducted to determine the changes in phase composition of easily fusible clays of various mineralogical composition and kilning sensitivity during the heating process. The basic admixtures of easily fusible clays were quarts, carbonates, mica, ferrous hydroxide, field spar, epidote, etc. The results obtained are described. Four USSR references (1938-1951). Tables
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nstitution :	바람 흥류 중 하다. 하는 가게 되는 이래로 보고를 모으면 돈을 보고 수 한 맛을 보고 나는 모든 사람들이 모르게 되었다.

Study of the firing process of low-melting clay products. Stek.i ker. 13 no.5:20-24 My '56. (MLRA 9:8) 1. Nauchno-issledovatel'skiy institut Stroykeramiki. (Ceramics) (Clay)



IUNDINA, Miriam Grigor vevna; BERENSHTAYN, Peysya Iosifovich; BLCKH, Grigoriy Semenovich; GRINBERG, S.M., red.; GILENSON, P.G., tekhn. red.

[Semidry press process for the manufacture of bricks] Proizvodstvo kirpicha metodom polusukhogo pressovaniia. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam. 1958. 162 p.

(Pressed brick) (MIRA 11:9)

BLOKH, G., kand. tekhn. nauk; LUNDINA, M. kand. tekhn. nauk; ROKHVARGER, Ye., kand. tekhn. nauk; KATSMAN, L., inzh.

Using combined technological processes in making large clayslag-concrete wall blocks and panels. Stroi. mat. 4 no.11:32-34
N '58. (Concrete blocks)

(Concrete blocks)

LUNDINA, M.G., kand.tekhn.nauk

Investigating physicochemical processes occuring during the firing of fusible clay products. Trudy HIIStroikeraniki no.13: 125-135 '58. (MIRA 12:5)

(Clay) (Brickmaking)

ROKHVARGER, Ye.L., kand.tekhn.nauk; LUNDINA, M.G., kand.tekhn.nauk; SHUR, B.M., inzh.

Working out designs and the technology of production of thin-walled panels without using heat-insulating materials. Stroi.mat. 6 no.4:7-10 Ap '60. (MIRA 13:6)

(Building blocks)

KOSHLYAK, L.L., ingh.; LUNDINA, M.G., kend.tekhn.nauk

The role of preparatory moistening in the molding preparation of a ceramic mixture. Stroi. mat. 7 no.3:30-32 Mr '61.

(Ceramics)

(Geramics)

LUNDINA, M.G.; ROSTOVTSEVA, K.I.

Organizing the mass production of ceramic facing tiles.
Stek. 1 ker. 18 no.6:23-25 Je '61.

(Tiles)

(Tiles)

LUNDINA, M.G., kand.tekhn.nauk; KOSHLYAK, L.L., kand.tekhn.nauk

Choosing the optimum design of efficient ceramic blocks for one-layer wall slabs of exterior walls. Stroi. mat. 8 no.8: 12-14. Ag '62. (MIRA 15:9)

(Geramics) (Walls)

GAK, B.N., kand.tekhn. nauk; GERVIDS, I.A., kand. tekhn. nauk; GENCHAR, P.D., inzh.; VASIL'KOV, S.G., kand. tekhn. nauk; YEVNEVICH, A.V., kand. tekhn.nauk; KIPTENKO, A.K., inzh.; LUNDINA, M.G., kand. tekhn.nauk; NAUMCV, M.M., kand. tekhn. nauk; PATRIK, S.A., inzh.; POPOV, L.N., kand. tekhn. nauk; ROGOVOY, M.I., inzh.; SEDOV, V.G., inzh.; SOKOLOV, Yu.B., inzh.; FRANCHUK, K.O., inzh.; KHAYKIN, V.Ya., inzh., nauchnyy red.; CHIBUNOVSKIY, N.G., inzh., nauchnyy red.; NOKHRATYAN, K.A., red. [deceased]; GUZMAN, M.A., red.; GURVICH, E.A., red.; BOROVNEV, N.K., tekhn. red.

[Handbook on the production of structural ceramics]Spravochnik po proizvodstvu stroitel'noi keramiki. Moskva, Gosstroiizdat. Vol.3.[Wall and roofing ceramics]Stenovaia i krovel'naia keramika. Pod red. M.M. Naumova i K.A. Nokhratiana. 1962. 699 p. (MIRA 16:1)

(Ceramics) (Building materials industry)

LUNDINA, M.G., kand.tekhn.nauk; Prinimali uchastiye; LOSHLYAK, L.L., mladshiy nauchnyy sotrudnik; YERMOLAYEVA, A.I., mladskiy nauchnyy sotrudnik; SAFRONOVA, Z.A., mladskiy nauchnyy sotrudnik; RAUKHMAN, B.R., inzh.; METLITSKAYA, S.S.; SHISHKONOVA, L.I.; MURAV'YEVA, L.V.

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Investigating the processing of clay in making bricks. Trudy NII Stroikeramiki no. 14:3-35 '59. (MIRA 14:1)

1. Obshchesoyuznyy nauchno-issledovatel'skiy institut stroitel'noy keramiki (for Koshlyak, Yermolayeva, Safronova). 2. Nachal'nik laboratorii Vorontsovskogo kirpichnogo zavoda (for Shishkanova).
3. Nachal'nik laboratorii Nizhne-Kotel'skogo kirpichnogo zavoda (for Shishkanova). 4. Nachal'nik laboratorii Moskovskogo eksperimental'nogo zavoda (for Murav'yeva).

(Clay)

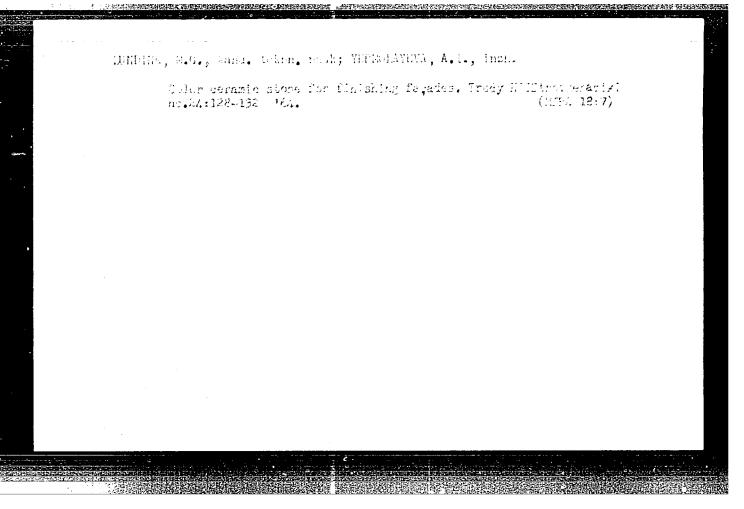
LUNDINA, M.G., kand.tekhn.nauk; KOSHLYAK, L.L.; kand.tekhn.nauk; KATSMAN, L.M., inzh.

Use of single-layer ceramic panels in experimental building. Trudy NIIStroikeramiki no.21:39-54 '63. (MIRA 17:2)

REMPEL', A.M.; SUKHOV, P.V.; KOPEYKIN, A.A., glavnyy red.; ROKHVARGER, Ye.L., zamestitel' glavnogo red.; VASYUTINSKAYA, A.A., red.; GARTSMAN, B.M., red.; ZAYONTS, R.M., red.; LUNDINA, M.G., red.; NOSOVA, Z.A., red.; PETROV, N.A., red.; RIVKIN, A.M., red.; ROMANOV, P.R., red.; SOKOLOV, P.V., red.; FEYN, Yu.E., red.; KOSYAKINA, Z.K., red.; KASIMOV, D.Ya., tekhn.red.

[Research on clay materials] Issledovanie glinistogo syr'ia. Moskva, Gosstroiizdat, 1963. 119 p. (Kuchino. Gosudarstvennyi nauchno-issledovatel'skii institut stroitel'noi keramiki. Trudy, no.22).

(MIRA 17:3)



Organizing the manufacture of face brick. Stroi. Eat. 11 nc.5:
19-20 My '65.

(MIRA 18:9)

CIA-RDP86-00513R001030830002-4 "APPROVED FOR RELEASE: 07/12/2001 HARLEY O BUSINESS AND RESERVED TO THE RESERVED BY THE RESERVED TO THE RESERVED

17 (4), 30 (1) AUTHORS:

Mokronesov, A. T., Lundina, T. N.

sov/20-127-4-56/60

TITLE:

On the Problem of the Role of the Dark and Light Period of Night and Day in the Photoperiodic Reaction of the Potato

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 4, pp 924 - 927

(USSR)

ABSTRACT:

Recently, the idea has been accepted that the photoperiodic reaction of short-day plants consists of light and darkness reactions which proceed subsequently and are coupled (Ref 1). The former are connected with photosynthesis (Refs 2-4) and depend on the intensity of light and its spectral composition. The latter depend on dissimilation (Ref 1), the presence of CO2, temperature, and the oxygen content of the air (Refs 5-8). The durability and continuity of the darkness reactions are span-

cific properties. It was proved (Refs 5,9,10) that short-day plants need at least a 6-9-hour period of darkness for bloom. irg. In all papers mentioned here the durability and continuity of the darkness reactions were proved by plants which propagate by means of seed. Since the propagation of many short-day plants is carried out by means of specialized organs of vegeta-

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CIA-RDP86-00513R001030830002-4" **APPROVED FOR RELEASE: 07/12/2001**

On the Problem of the Role of the Dark and Light SOV/20-127-4-56/60 Period of Hight and Day in the Photoperiodic Reaction of the Potato

tive reproduction it was interesting to investigate e.g. the problem mentioned in the title with regard to the importance of the two periods for the formation of tubers, bulbs, viviparous buds, and other organs. The authors introduced dark intervals in the light period of the day and light intervals in the dark period. Then they investigated their effect on the development of the potato, and especially on tube-formation. As is known, many uncultivated potato species form tubers only during the short day. Cultivated potato species, however, accelerate tuber-formation during the short day (Ref 13). Although the potato plant is a short-day plant on account of this characteristic the assumption is widespread that it belongs to long-day plants on account of its blooming (Refs 13,14). Account cording to some data (Ref 15) the short day is favorable for generative development. In the years 1957 and 1958 experiments were made with the varieties Lorch and Berlichingen (Sclanum tuberosum) and Solanum demissum. Typical objects of photoperiodic investigations were used for comparison: Perilla and Salat (Lactuca sativa). The variants were: 1) a long day,

Card 2/3

On the Problem of the Role of the Dark and Light SOV/20-127-4-56/60 Period of Night and Day in the Photoperiodic Reaction of the Potato

> natural of the latitude of Sverdlovsk; 2) a short 10-hour day; 3) a short day with 20 minutes darkness in the middle of the day; 4) a short day with 20 minutes illumination during the night. Perilla and Salat reacted in the same way they did with other scientists (Refs 4,5,10,11). Table 1 shows that during the short day the tubers of Solanum were formed 47 - 56 days later than during the long day (Fig 1). The 5 - 7-day acceleration of the tuber-formation of S. tuberosum varieties during the short day is completely reduced by a 20 minute illumination during the night (similar to S.demissum) (Fig 2). The darkness reactions must not be interrupted and cannot be summed up. There are 2 figures, 2 tables, and 15 references, 7 of

ASSOCIATION:

Ural'skiy gosudarstvennyy universitet im. A. M. Gor'kogo (Ural State University imeni A. M. Gor'kiy)

PRESENTED:

April 3, 1959, by A. L. Kursanov, Academician

SUBMITTED:

April 2, 1959

Card 3/3

CIA-RDP86-00513R001030830002-4" **APPROVED FOR RELEASE: 07/12/2001**

LUNDOVA, A.

[Survey of premature births at the I Maternity Clinic in Prague] Prehled predcasnych porodu na I. porocnicke klinice K.U. v Prase. Cesk.gyn. 15 no.1-2:35-46 '50. (CIML 19:1)

1. Of the First Obstetrical and Gynecological Clinic of Charles University, Prague (Head -- Prof. K.Klaus, M.D.)

LUNDOVA, A.	0
"How to Examine and Treat Women Suffering From Erosion of the Portio Vaginalis." (Casopis Lekaru Ceskych. Vol. 93, no. 8, Feb. 1954. Praha).	p. 206.
	·
East European Vol. 3, No. 6 So: Monthly List of Musika Accessions, Library of Congress, June	4 195 3 /, Uncl.
	Kaling Park

LUNDOVA, Auna

URBANEK, Gabriel; DOLEZEL, Bedrich; RAKUSAN, Bohumir; VYSTRCIL, Alois; ZICHA, Karel; ZICHA, Osvald, Kolektiv RTN; LUNDOVA, Anna, KUDr, asistent I. gynekologicke kliniky prof. Dr. Klause

Tehrapy of chronic gynecological diseases with the tissue preparation Floristen mite (RTN 118) Gas. lek. cesk. 93 no.49:1352-1354 3 Dec 54.

1. Z vyzkumneho ustavu lecivych rostlin, z II. interni kliniky prof.
Dr. Vancury a z I. gynekolgicke kliniky prof. Dr. Klause v Praze

(PLANTS, therapeutic use

Hypericum perforatum extract in inflammatory gynecol. dis.)

(GYNECOLOGICAL DISEASES, therapy

Hypericum perforatum extract)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001030830002-4"

LUNDOVA, Anda, MUDr; SOYKOVA-PACHNEROVA, Eva, MUDr; KRUTOVA, Eva, MUDr; MACHOLDA, Fr., MUDr

Secondary findings in etiology of genital tuberculosis. Prakt. lek., Praha, 35 no.3:54-56 5 Feb 55.

1. I gin. klin. KU. prednosta prof. MUDr K.Klaus (for Lundova, Soykova-Pachnerova, Krutova) 2. Plic. kl. KU v Praze; predn. prof. MUDr J.Jedlicka (for Macholda)

(TUHERCULOSIS, FEMALE GENITAL, etiology and pathogenesis current findings)

SOYKOVA-PACHNEROVA, E., MUDr.; LUNDOVA, A., MUDr.; MACHOLDA, F., MUDr.

The Middlebrook-Pubos Reaction in the course of treatment of tuberculous genitalia. Ceek. gyn. 21-35 no.2:101-106 Mar 56.

1. Z I. gyn. kliniky KU v Praze. Prednosta prof. Dr. K. Klaus Z plicni kliniky v Praze. Prednosta prof. Dr. J. Jedlicka.

(TUBERCULOSIS, FEMALE GENITAL, immunol.

Middlebrook-Dubos test.

(HEMAGGLIVINATION

middlebrook-dubos test in tuberc. of female genitalia.

(HEMOILYSIS

same)

LUNDOVA, Anna, MUDr. (Prahs 2, Karlovo nam. 499)

Trial use of Zambrini's salivary test in gynecological diseases. Cesk. gyn. 22[37] no. 1/2:76-79 Jan 58.

1. I. gyn. klinika Ku v Praze, prednosta prof. Dr. K. Klaus. (GYNECOLOGICAL DINEASES, diag.

Zambrini's salivary test (Cz))

LUNDOVA, Anna; JIROVEC, Otto, akademik; JIRA, Jindrich, C.Sc.; MACHOLDA, Frantisek

Clinical evaluation of positive toxoplasmin tests in women with genital tuberculosis and with diseases of suspected tuberculous etiology. Cesk. gyn. 26[40] no.10:748-753 D '61.

1. I. gynekologicka klinika KU, prednosta prof. dr. K.Klaus Protozoologicka laborator CSAV, prednosta akademik O. Jirovec Klinika pro
choroby plicni a tuberkulozu KU, prednosta prof. dr. J.Jedlicka, Praha.

(TUBERCULOSIS FEMALE GENITAL diag)

(TOXOPLASMOSIS diag)

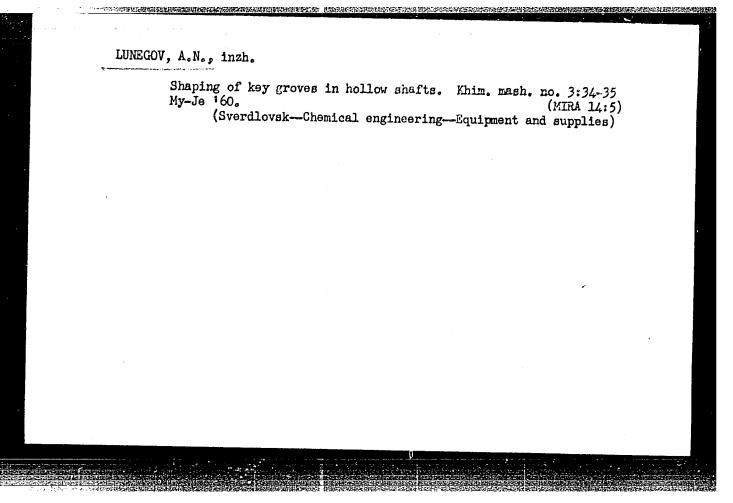
USBR/Ruclear Physics - Isotopes, Jan 50
Nitrogen
Radioactivity, Nitrogen

"Radioactive Isotopes of Nitrogen," A. G.
Lundun, M. B. Neyman 36 pp

"Uspekhi Fiz Nauk" Vol XL, No 1

Presents methods for obtaining radioactive nitrogen N, N, N, N, N, N, and discusses their properties, and certain applications in chemistry and biology.

159772



KALACHEV, Yu.A.; BERESNEV, A.T.; LUNEGOV, D.P.

Performance of a kerosene cutter using liquefied gas. Gaz.prom. 6 no.7:
23-24. '61.

(MIRA 17:2)

出现这种的的数据使用的特别的基础的基础的的。 第一条

KALACHEV, Yu.A., inzh.; BERESNEV, A.T., inzh.; LUNEGOV, D.P.

Propane-oxygen cutting by the K-51 petroleum torch. Svar. proizv. no.7:37-38 Jl '61. (MIRA 14:6)

1. Chelyabinskiy nauchno-issledovatel skiy institut tekhnologii mashinostroyeniya (for Kalachev, Beresnev). 2. Chelyabinskiy traktornyy zavod (for Lunegov).

(Gas welding and cutting--Equipment and supplies)

- 1. GINSBURG, I. P., BORETSKAYA, B. A., OZHEGOVA, A. I., LUNEGOVA, A. N.
- 2. USSR (600)
- 4. Polunochnoye Deposits Manganese Ores
- 7. Study of the composition of the manganese ores of the Polunochnoye deposit. Abstract, zzv. Glav. upr. geol. fon. no. 2, 1947.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

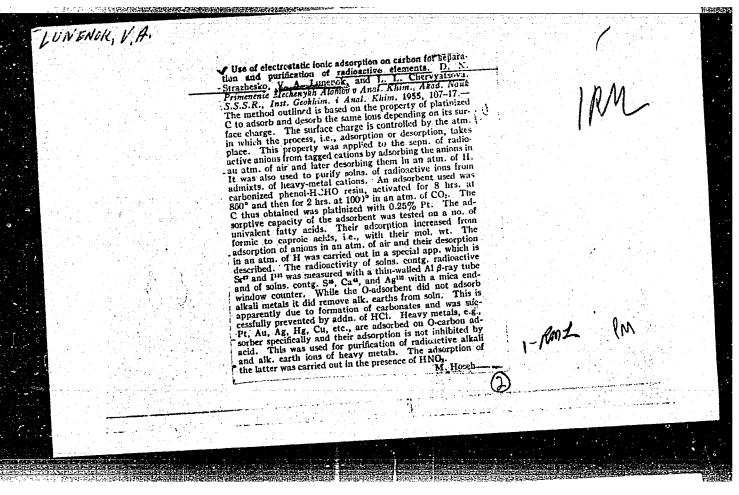
GELLER, B.A.; NEYMARK, I.Y.; RUBANIK, M.Ya.; GRAGEROV, I.P.; POLYAKOV, M.V.; RUSOV, M.T.; DAIN, B.Ya.; REKASHEVA, A.F.; STRAZHESKO, D.N.; LUNENOK, Y.A.; ROYTER, V.A.; SULIMA, L.V.; FOMENKO, A.S.

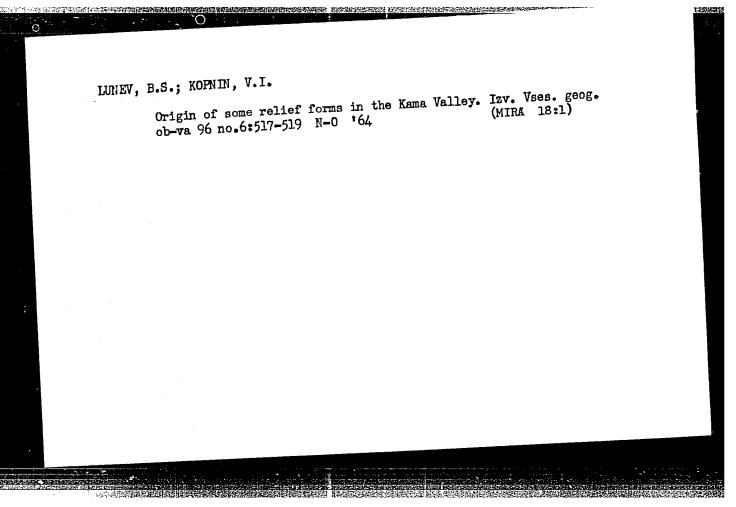
Aleksandr Il'ich Brodskii, 1895-; on his seventieth birthday. Zhur. fiz. khim. 39 no.6:1540-1541 Je '65.

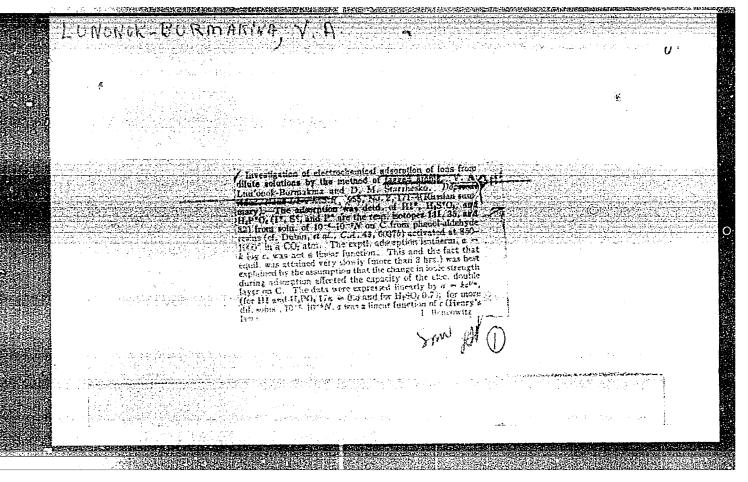
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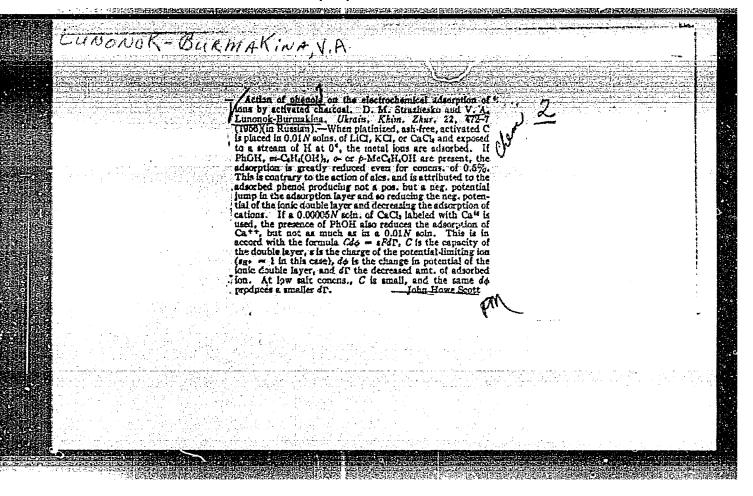


BRODSKIY, A. I.; LURENCE-BURNAKINA, V. A.

Oxygen exchange between calcium carbonate and water in connection with the problem of the "geological thermometer." Dokl. AM SSSR 101 no.4:715-717 Ap '55.

1. Chlen-korrespondent AM SSSR (for Brodskiy). 2. Institut fiziche skoy khimii in. L. V. Pisarzhevskogo Akademii nauk USSR.

(Oxygen) (Calcium carbonate) (Geochemistry)



LUNENOK-BURNAKINA, V.A.

Electrochemical adsorption of ions by carbon from nonaqueous
solutions with various concentrations of electrolytes. Urr.
solutions with various concentrations of electrolytes. (MIRA 10:10)
khim.zhur. 23 no.4:431-436 '57.

1.Institut fizioheskoy khimii im. L.V. Pisarzhevskogo AN USSR.
(Adsorption) (Electrochemistry)

STRACHESKO, D.N.; LUNENOK-BURMAKINA, V.A.

The effect of phenols on the electrochemical adsorption of ions by activated carbon. Ukr.khim.zhur. 22 no.4:472-477 (MIRA 10:10) 156.

1.Institut fizicheskoy khimii im. L.V. Pisarzhevskogo AN USSR. (Phenols) (Electrochemistry)

LUNENOK- Burmakina, V. A.

73-3-3/24

AUTHOR: Lunenok-Burmakina, V. A. and D'yakova, I. F.

Isotopic Exchange of Sulphur in Polythionates. (Izotopnyy Obmen Sery V Politionatakh)

PERIODICAL: Ukrainskiy Khimicheskiy Zhurnal, 1957, vol,23, No.3, pp. 303-305 (USSR).

ABSTRACT: The isotope exchange of sulphur between tri- and tetrathionates, tetra- and pentathionates and tri- and di-thionates was investigated. A 40% exchange occurred between tri- and tetra-thionates at 100°C. Complete exchange at room temperature takes place in the case of tetra- and penta-thionates. However, no exchange of the sulphite atoms occurred in the case of tri- and di-thionates after 2 hours at 60°C. The exchange of sulphide and sulphite ions of sulphur in tri- and tetrathionates takes place with the same velocity (at the same rate) by the exchange of whole thio-sulphate groups of these polythionates. Table 1 gives the results of tests on active tri-thionate and inactive tetra-thionate, table 2 the exchange of inactive trithionate and tetrathionate in which the sulphide sulphur was tagged. There are 2 tables Card 1/2 and 11 references, 6 of which are Slavic.

73-3-3/24

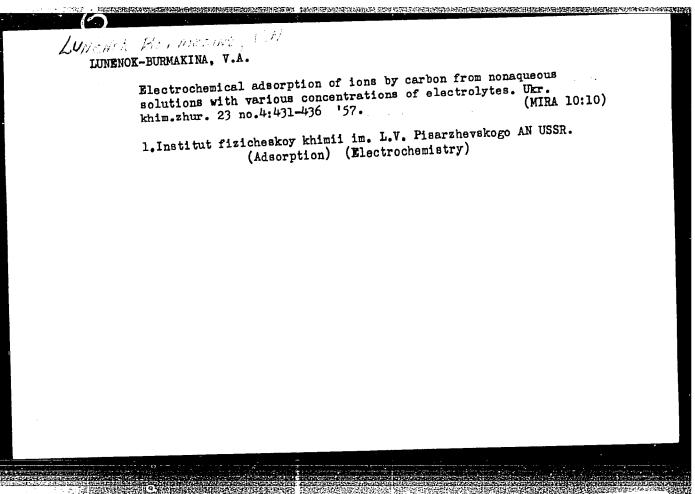
Isotopic Exchange of Sulphur in Polythionates.

SUBMITTED: December, 21, 1956.

ASSOCIATION: Institute of Physical Chemistry imeni L.V. Pisarzhevsky. (Institut Fizicheskoy Khimii im. L.V. Pisarzhevskogo AN USSR.)

AVAIIABLE: Library of Congress.

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CIA-RDP86-00513R001030830002-4 "APPROVED FOR RELEASE: 07/12/2001

LUNENOK-BURMAKINA, V. A.

Lunenok-Burmakina, V. A.

79-2-7/58

AUTHOR:

TITLE:

Study of Polythionate Reactions by Means of Labeled Sulfur. Part 3. Reaction of Hexathionate (Izucheniye reaktsiy politionatov s pomoshchyu

mechenoy sery. III. Reaktsiya geksationata)

PERIODICAL:

Zhurnal Obshchey Khimii, 1957, vol 27, No 2, pp. 311-315 (U.S.S.R.)

ABSTRACT:

Employing marked S, the author investigated the reactions leading to the formation of hexathionates from thiosulfate, nitrite and hydrochloric acid, from sulfur monochloride and thiosulfate as well as the reaction of decomposing hexathionate with potassium cyanide, ammonia and potassium sulfite. The reaction mechanism is explained. It was found that the radioactive marker introduced into the hexathionate was unchanged. The absence of interchange in the polysulfide chain of polythionate sulfur was established. This allows one to obtain higher polythionates in which not all sulfide sulfur atoms are marked but only a part of it which may facilitate the explanation of the complex reaction mechanisms of higher polythionates. The activity of the sulfide sulfur atom of the decomposition products was 90% of the radioactivity of the initial S. Summary

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CIA-RDP86-00513R001030830002-4" **APPROVED FOR RELEASE: 07/12/2001**

LUNEDOK- BURMAKINA, V.A.

AUTHOR:

Brodskiy, A. I., Corresponding Member of the Academy,

Franchuk, I. F., and Lumanok-Burmakina, V. A.

TITLE:

The Study of the Mechanism of the Electrolytic Formation and

Hydrolysis of Persulfates by the Isotopic Method

(Izucheniye mekhanizma elektroliticheskogo obrazovaniya i gidro-

liza persul'fata izotopnym metodom)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1957, Vol. 115, Nr 5, pp. 934 - 937

(USSR)

ABSTRACT:

Various mechanisms, which had been recommended for the anodic formation of persulfates by sulfate electrolysis can be classed into 2 types: 1.) According to the most usual conceptions, persulfate is formed by a direct recombination of the discharging sulfate- (or bisulfate-) ions. 2.) According to other opinions water oxidation products (H2O2, OH, OH, surface oxides, etc.) are formed primarily on the anode or in the electrolytic layer near the anode, which then oxidize the sulfate by electron or exygen atoms. Most of the other mechanisms suggested belong to one of the two types, differing only with respect to details of

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20-5-23/54

The Study of the Mechanism of the Electrolytic Formation and Hydrolysis of Persulfates by the Isotopic Method

> the intermediate stages. Frumkin and his collaborators proved that in the electrolysis of a K2SO, solution in H2O18 in an acid, neutral, or slightly alkaline medium persulfate oxygen is free from surplus heavy oxygen. This makes it possible to reject all those mechanisms in which the participation of water oxygen in the formation of persulfates is presumed. The authors made use of the heavy oxygen isotope in order to clarify the problem of a possible participation of hydrogen peroxide in the anodic formation of persulfates and for the study of the mechanism of perand Ifate hydrolysis. It was already known that H2O2 and K2S2O8 exchange no oxygen with water. Solutions of 40 g KHSO, were subjected to electrolysis in 200 ml water through a current of 3 A between platinum electrodes at 10 - 15°. Results: 1.) The persulfate yeald decreased abruptly if 10 - 20 $\rm g/1~H_2O_2$ was added to the electrolyte. It then increased in accordance with the decrease of the not decomposed remainder of H₂O₂. The two anode H202 - decomposition and formation of K2S208 processes apparently take place independently. The intermediate formation of H₂O₂ is doubted. The independence of the two anode processes is confirmed by the electrolyte experiments of KHSO, + H2O, in

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The Study of the Mechanism of the Electrolytic Formation and Hydrolysis of Persulfates by the Isotopic Method

 $\rm{H}_{2}\rm{O}^{18}$ with an isotopic analysis of the anodic oxygen (table 1). Also the results obtained by these experiments show that the anodic oxidation of H2O2 take place without the participation of water-oxygen. 2.) In order to prove definitely that H₂O₂ does not participate in the anodic formation of persulfate, the authors employed the method of isotopic dilution. It may be seen from all results obtained that neither H202 nor, apparently the OH radicals can be intermediate product of persulfate formation on the anode, because the former recombine quickly in H202 by exchanging their oxygen with water. 3.) A mixture of 1,3 - 4 g $K_2S_2O_8$ with 1 - 3 g 70% HClO or 50% H₂SO₄ was hydrolized at 70° by blowing through steam at 30 torr. As seen from table 3, $\rm H_2O_2$ had the composition of the water if $\rm H_2O^{18}$ was used. Thus, the entire oxygen of the $\rm H_2O_2$ originates from the persulfate oxygen without the participation of water oxygen. In all cases, also in the case of previous works, it was proved that the peroxide bridge is not interrupted and that water oxygen is not incorporated within the decomposition products of (also other) peroxides. A comparison of the data obtained from the authors

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The Study of the Mechanism of the Electrolytic Formation and Hydrolysis of Persulfates by the Isotopic Method

shows that in the sequence of transformations

 S_2O_8 --> SO_5 --> H_2O_2 --> O_2 the peroxide group -0-0- goes over from the persulfate, without undergoing separation, into the final product of its decay, i.e. oxygen. In order to eliminate the secondary exchange between HSO₄ or of the H₂SO₄ produced therefrom and water, Pb (ClO₄)₂ was added. This was not fully effective although the exchange became less. This proved that a considerable quantity of O¹⁸ is introduced into the bisulfate by secondary exchange. This agrees with the scheme mentioned though it still lacks quantitative confirmation. There are 1 figure, 3 tables, and 5 Slavic references.

ASSOCIATION:

Institute for Physical Chemistry imeni L.V. Pisarzhevskiy AN Ukrainian SSR (Institut fizicheskoy khimii im. L.V. Pisarzhevskogo Akademii nauk USSR)

SUBMITTED:

March 13, 1957

AVAILABLE:

Library of Congress

Card 4/4

5(4) AUTHORS:

Brodskiy, A. I., Corresponding Member, SOV/20-123-1-31/56 Academy of Sciences, USSR, Franchuk, V. I., Aleksankin, M. M., Lunenok-Burmakina, V. A.

TITLE:

Investigation of the Reactions of the Production of Hydrogen Peroxide in the Oxidation of 2-Ethyl Antrahydroquinone and Isopropanol by the Isotope Method (Issledovaniye reaktsiy obrazovaniya perekisi vodoroda pri okislenii 2-etilantragidrokhinona i izopropanola izotopnym metodom)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 1, pp 117-119 (USSR)

ABSTRACT:

The mechanism of the reactions serving as a basis of the industrial methods of producing hydrogen peroxide by the oxidation of 2-ethylantrahydroquinone (or its derivatives) and of isopropyl alcohol by elementary oxygen has hitherto not been investigated. For the purpose of solving this problem the authors investigated the above-mentioned reactions by means of the isotopic method. 1) The oxidation of 2-ethyl hydroquinone and tetrahydro-2-ethyl antrahydroquinone was carried out under conditions similar to those employed in industry. The results obtained by experiments carried out with a mixture 1: 1 of the

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Investigation of the Reactions of the Production of SOV/20-123-1-31/56 Hydrogen Peroxide in the Oxidation of 2-Ethyl Antrahydroquinone and Isopropanol by the Isotope Method

aforementioned substances (working mixture) are given in a table. According to the data of this table, the oxygen of the produced hydrogen peroxide originates entirely from the elementary oxygen used for oxidation. The oxygen of the hydroxyl groups of antrahydroquinone or of alcohol does not take part in the reaction. The mechanism

$$(CH_3)_4C_6(OH)_2 \xrightarrow{+0_2} (CH_3)_4C_6O_2^{"} \xrightarrow{+0_2} (CH_3)_4C_6O_2 + O_2^{"}$$

suggested by R. B. Weissberger (Veysberger) et al. (Ref 2) is hardly probable in the reactions under investigation. Also the intermediate production of transannular peroxides can be excluded. Mechanisms with intermediate production of hydrogen peroxides or radical mechanisms with stripping of a proton from the hydroxyl of the antrahydroquinone are compatible with the results obtained by the aforementioned experiments. For the purpose of further clarification of the mechanism of the reactions investigated, the authors introduced deuterium into the hydroxyl groups of the 2-ethyl antrahydroquinone by the

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Investigation of the Reactions of the Production of SOV/20-123-1-31/56 Hydrogen Peroxide in the Oxidation of 2-Ethyl Antrahydroquinone and Isopropanol by the Isotope Method

exchange with methyl alcohol CH3OD. Carrying out of this reaction is described in short. The hydrogen in the H202 obtained originates entirely from the hydroxyl groups of the ethyl antrahydroquinone. According to these data it is possible to exclude also the intermediate production of hydrogen peroxide with addition of the peroxide group into any position (with the exception of 9 or 10). The formation of the hydrogen peroxides in the positions 9 or 10 is not contradictory to the abovediscussed observations. By the authors' request V. V. Voyevodskiy, N. N. Bubnov, and N. I. Tikhomirovarecorded the spectrum of a solution of 2-ethyl antrahydroquinone during its oxidation. On this occasion the radical semiquinone was not found. In higher concentrations of a basic medium a distinct spectrum of the radical ion semiquinone was found. Several secondary alcohols are known to oxidize easily by elementary oxygen. In this connection the authors oxidized isopropyl alcohol, in which case the hydrogen peroxide yield amounted to 48%. Also in this case

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Investigation of the Reactions of the Production of SOV/20-123-1-31/56 Hydrogen Peroxide in the Oxidation of 2-Ethyl Antrahydroquinone and Isopropanol by the Isotope Method

> the entire oxygen of hydrogen peroxide originates from elementary oxygen, and the oxygen in the hydroxyl of the alcohol does not participate. There are 1 table and 6 references.

ASSOCIATION: Institut fizicheskoy khimii im. L. V. Pisarzhevskogo Akademii nauk USSR (Institute for Physical Chemistry imeni L. V. Pisarzhevskiy of the Academy of Sciences, UkrSSR)

SUBMITTED:

June 21, 1958 . :

Card 4/4

PHASE I BOOK EXPLOITATION SO7/5410

Taskkentskaya konferentelya po mirnomu ispol'zovaniyu atomnoy energii, Tashkent, 1959.

Trudy (Gransactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy) v. 2. Tashkent, Izd-vo AN UzSSR, 1960. 489 p. Errata slip inserted. 1,500 copies printed.

Sponsoring Agency: Akademiya nauk Uzbekskoy SSR.

Responsible Ed.: S. V. Starodubtsey, Academician, Academy of Sciences Uzbek SSR. Editorial Board: A. A. Abdullayev, Condidate of Physics and Mathematics; D. M. Abduraculov, Doctor of Medical Sciences; U. A. Tarfov, Academician, Academy of Sciences; V. N. Ivashey; G. S. Ikresnova; A. Ve. Kiv; Ye. ii. Lebanov, Candidate of Physics and Hathematics; A. I. Mivolayev, Candidate of Hedical Sciences; D. Hishanov, Candidate of Caccical Sciences; A. S. Sadykov, Corresponding Member, Academy of Sciences USSR, Academician, Academy of Sciences USSR, Academician, Academy of Sciences Uzbek SSR; Yu. N. Talanin, Card-1/20

Transactions of the Tashkent (Cont.)

Candidate of Physics and Mathematics; Ya. Ma. Turakulov, Doctor of Biological Sciences. Ed.: R. I. Khamidov; Tech. Ed.: A. G. Enbakkanova.

PURIOSE: The publication is intended for scientific workers and specialists employed in enterprises where radioactive icotopes and nuclear radiation are used for research in chemical, geolical, and bechnological fields.

COVERAGE: This collection of 133 articles represents the second volume of the Transactions of the Tashkent Conference on the Fearcaful Uses of Abonic Energy. The individual article deal with a wide range of problems in the field of nuclear radiation, including; production and chemical analysis of radioactive isotopes; invastigation of the kinetics of chemical reactions by means of isotopes; application of spectral analysis for the manufacturing of radioactive preparations; redocative methods for determining the content of elements in the rocks; and an analysis of methods for obtaining pure substances. Certain

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	Transactions of the Tashkent (Cont.) SOV/5410		
	instruments used, such as automatic regulators, flormeters, level gauges, and high-sensitivity gamma-relays, are described articles. References follow individual	•	
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	Taksar, I. M., and V. A. Yanushkovskiy [Institut fiziki AN Latv SSR - Institute of Physics AS Latvian SSR]. Problems of the Typification of Automatic-Control Apparatus Based on the Use of Radioactive Isotopes	7	
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Decickly, A. I., I. P. Gragerov, I. F. Franchuk, L. V. Sulima, I. I. Kukhteeko, V. A. Lunenok, A. S. Fomenko, and A. H. Alektenkin (Institut Truicheekoy khirdi Al SOSR - Institut of Empateul Chemistry AS USGR]. Investingion of the Mechanism of Cralleing Reactions by the Isotopic Method	327		
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5(4)

SOV/76-33-7-38/40

AUTHOR:

Lunenok-Burmakina, V. A.

TITLE:

Third Conference of the Ukrainian Republic on Physical Chemistry

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 7,

pp 1671 - 1673 (USSR)

ABSTRACT:

From December 22 to 25, 1958 the above Conference was held at the Institut fizicheskoy khimii im. L. V. Pisarzhevskogo AN USSR (Institute of Physical Chemistry imeni L. V. Pisarzhevskiy AS UkrSSR) in Kiyev. It was attended by about 200 specialists in physical chemistry from 49 scientific institutions from 13 cities. 2 plenary and 15 section meetings took place, at which 68 reports were held. The Conference was opened by ${\bf A}_{\pm}$ I. Brodskiy who pointed out among other things that several modern methods of investigations are insufficiently applied in the UkrSSR. The following lectures and the subjects of their reports are briefly mentioned: At the plenary meeting - S. S. Urazovskiy (Khar'kov), D. F. Kalinovich, I. N. Frantsevich, I. I. Kovenskiy and M. F. Smolina (Kiyev), N. A. Izmaylov (Khar'kov), A. I. Brodskiy (Kiyev), S. S. Ivanchev and A. I. Yurzhenko (L'vov).

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At the meetings of the section "Mechanism of Chemical Processes

Third Conference of the Ukrainian Republic on Physical SOV/76-33-7-38/40 Chemistry

and Molecular Structure" - V. P. Morozov, G. I. Rybakova, N. K. Morozova, V. N. Khlebnikova and D. S. Koval'chuk (Dnepropetrovsk), R. V. Vizgert and Ya. P. Berkman (L'vov), A. F. Rekasheva and E. P. Dar'yeva (Kiyev), M. O. Tereshevich, O. K. Skarre and T. S. Shelekhova (Dnepropetrovsk), N. I. Grishko and Ye. N. Gur'yanova (Dnepropetrovsk, Moscow), N. M. Turkevich and Ye. V. Vladzimirskaya (L'vovk), I. I. Dilung and B. Ya. Dain (Kiyev). At the section "Theory of Solutions" - A. Z. Golik, A. F. Skryshevskiy, P. F. Choplan and V. Ye. Baranovskiy (Kiyev), as well as S. D. Ravikovich (Kiyev). At the section "Phase Equilibria . Physico-Chemical Analysis" - G. V. Samsonov (Kiyev), Ye. Ya. Gorenbeyn (Kiyev), I. O. Galinker, I. M. Rodnyanskiy and N. A. Belova, B. F. Markov and N. Kh. Tumanova (Kiyev), N. A. Izmaylov, N. P. Dzyuba (Khar'kov), N. A. Izmaylov and E. L. Guravich (Khar'kov). At the section " Electrochemical Processes" - A. S. Afanas'yev, A. N. Burmistrova, V. I. Sotnikova and Ye. N. Chankova (Dnepropetrovsk), A. I. Brodskiy, I. F. Franchuk, V. A. Lunenok-Burmakina, A. S. Fomenko, T. M. Abramova and I. L. Gankina (Kiyev), V. V. Stender and V. G. Selivanov (Dnepropetrovsk).

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Third Conference of the Ukrainian Republic on Physical SCV/76-33-7-38/40 Chemistry

G. A. Yemel'yanenko (Dnepropetrovsk), A. S. Afanas'yev and O. Ya. Miroshnichenko (Dnepropetrovsk), N. A. Izmaylov and S. Kh Mushinska (Khar'kov), L. S. Ivanova and D. N. Strazhesko (Kiyev), M. V. Tovbina and V. P. Musiyenko (Kiyev), as well as Z. Z. Vysotskiy (Kiyev). At the section "Kinetics and Catalysis"
N. A. Stukanovskaya and V. A. Royter (Kiyev), M. Ya. Rubanik (Kiyev), Ya. B. Gorokhovatskiy and M. Ya. Rubanik (Kiyev), Yu. A. Singurovskaya, N. P. Radchenko, O. A. Strel'tsov and M. T. Rusov (Kiyev), V. P. Ushakova, G. P. Korneychuk, N. A. Stukanovskaya. V. G. Tretyak, T. G. Voloshina and N. A. Konstantinova (Kiyev), V. V. Shalya (Kiyev), T. P. Korniyenko (Kiyev), D. N. Strazhesko, Z. D. Skripnik, L. L. Chervyatsova and G. F. Yankovska (Kiyev), M. A. Piontkovskaya and I. Ye. Neymark (Kiyev), I. G. Ryss and S. L. Idel's (Dnepropetrovsk), G. Ya. Turovskiy and V. A. Royter (Kiyev), G. P. Korneychuk, V. A. Royter, Ya. V. Zhigaylo and V. Ya. Vol'fson (Kiyev). Some resolutions were adopted concerning the problems of the "Theory of Chemical Structure, Kinetics, and Reactivity" and of the Scientific Fundamentals of the Selection of Catalysts" as well as of the "Scientific Fundamentals of the Synthesis of Mineral Sorbents".

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Third Conference of the Ukrainian Republic on Physical SOV/76-33-7-38/4c Chemistry

ASSOCIATION: Akademiya nauk USSR Institut fizicheskoy khimii im, L. V. Pisarzhevskogo (Academy of Sciences of the UkrSSR, Institute of Physical Chemistry imeni L. V. Pisarzhevskiy)

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5(4) AUTHORS: SOV/20-129-6-38/69 Lunenok-Burmakina, V. A., Brodskiy, A. I., Academician,

AS TRISSR MANAGEMENT AND THE STREET

TITLE:

Investigation of the Mechanism of the Oxidation of Some In-

organic Substances by Persulfate

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 6, pp 1335-1338

(USSR)

ABSTRACT:

The authors refer to the various opinions expressed in publications on the reaction of peroxides (Refs 2-13), among others to one of their own, which was elaborated in collaboration with I. F. Franchuk (Ref 1). For the purpose of explaining what happens in the reaction $K_2S_2O_8 + H_2O_2 \longrightarrow 2KHSO_4 + O_2$,

the following three systems differently tagged by 0^{18} were investigated: $K_2S_2\tilde{0}_8 + H_2O_2 + H_2O$; $K_2S_2O_8 + H_2O_2 + H_2O$;

 $K_2S_2O_8 + H_2O_2 + H_2O_0$. The liberated oxygen was investigated by

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means of spectroscopic analysis as to its 0 18 content. The

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investigation of the 0^{18} content of other substances has already been described by reference 1. Table 1 shows that the liberated oxygen has the same isotopic composition as $H_2^{0}_2$, that the oxygen of bisulfate formed has the composition of persulfate, and that the oxygen of water does not take part in the reaction. The change of the acidity of the medium had no influence on the reaction. Further, the following reactions were investigated: 1) $K_2S_2O_8 + 2AgNO_3 + 2H_2O \longrightarrow Ag_2O_2 +$

+ 2KHSO $_4$ + 2HNO $_3$. Here AgO * was formed only from H $_2$ O * , whereas O 18 contained in K $_2$ S $_2$ O $_8$ passes over completely into the bisulfate. The oxidation of Ag thus takes place according to the electron mechanism without a transfer of oxygen. AgO is no real peroxide. 2) The same result was obtained in the reaction

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> $\text{MnCl}_2 + \text{K}_2\text{S}_2\text{O}_8 + 3\text{H}_2\text{O} \longrightarrow \text{H}_2\text{MnO}_3 + 2\text{KHSO}_4 + 2\text{HCl}, and the dif$ ference in the binding of the three 0-atoms in H2Mn03 was confirmed (Ref 18). One of the O-atoms is easily exchangeable so that the formula MnO2.H2O is more correct. 3) The reaction K2S208 + PbS -- PbS04 + K2S04 + S was carried out with a solution of not tagged persulfate in water tagged with 018. The oxygen of water did not react. Also in this case the PbS is oxidized by the persulfate according to the electron mechanism. This was confirmed by experiments with PbS which was tagged with 500. The liberated sulfur contained the entire 500, whereas $PbSO_4$ and K_2SO_4 were not active. Unlike the oxidation with H202, that with persulfate was accompanied in all reactions investigated by a separation of the -0-0- bond, and takes place by a transfer of electrons, but not of 0-atoms from the oxidizing substance to the substance to be oxidized. The authors

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thank A. P. Potemskaya, E. G. Veselaya, and T. A. Vovk for their collaboration. There are 1 table and 19 references, 5 of which are Soviet.

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk USSR

(Institute of Physical Chemistry of the Academy of Sciences

of the Ukrainskaya SSR)

SUBMITTED: September 5, 1959

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LUNENOK

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AUTHORS:

Brodskiy, A. I., Gragerov, I. P., Franchuk, I. F., Sulima, L.V., Kukhtenko, I. I., Lunenok, V. A., Fomenko, A. S., Aleksankin, H. H.

TITLE:

Mechanism of oxidation reactions investigated by the isotopic

method

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 1, 1962, 60, abstract 18439 (Tr. Tashkentsk. konferentsii po mirn. ispol'zovaniyu

s.comn. energii, v. 2. Tashkent, AN UzSSR, 1960, 327-334)

TEXT: A review of work done by the authors on studying the mechanism of certain oxidation reactions using isotopes: the oxidation of organic compounds with chromyl chloride, the mechanism of anthranil regrouping, the process of oxidation of aniline, o-anisidine and p-nitroaniline with Caro acid. The mechanism whereby hydrogen peroxide and certain persulfate-type inorganic peroxide compounds are formed and converted is examined; so also are the kinetics of isotopic exchange in substituted benzoic acids,

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:	Mechanism of oxidation reactions		
•	bonzaldehydes, alcohols, naphthalenes and nitr 18 references. [Abstracter's note: Complete	o compounds with H ₂ 010. translation.	
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